

OCT/NOV 2017

- 1 Which one of the following is not an essential attribute of good software development?
 - 1 Maintainability
 - 2 Dependability and security,
 - 3 Efficiency and acceptability
 - 4 Competence
- 2 The two fundamental types of software product are____
 - 1 Generic products and customized products
 - 2 Company product and generic product
 - 3 Company product and customized product
 - 4 Company product and developer product
- 3 An engineering discipline which deals with all aspects of software production from specification to system maintenance is termed____
 - 1 System engineering
 - 2 Software engineering
 - 3 Product engineering
 - 4 Tools engineering
- 4 Which of this general issue does not affect software development?
 - 1 Heterogeneity
 - 2 Business and social change
 - 3 Security and trust
 - 4 Confidentiality
- 5 Which of the following is appropriate for the incremental model of software development'
 1. When developments methods are flexible
 - 2 When the process of software development is well defined
 - 3 When a core product is required quickly
 - 4 All of the above
- 6 Themost appropriate situation for agile method of software development is_____.
 - 1 When developments methods are flexible
 - 2 When the process of software development is well defined
 - 3 When requirements are well known in advance
 - 4 All of the above

- 7 Which of the following needs to be assessed during unit testing?
- 1 Algorithmic performance
 - 2 Code stability
 - 3 To test during development
 - 4 All of the above
- 8 What is the purpose of load testing?
- 1 To test the response rate of the system
 - 2 To test the number of transactions that the system can handle simultaneously
 - 3 To test during development
 - 4 All of the above
- 9 The purpose of performance testing is to_____
- 1 To test the response rate of the system
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 - 4 All of the above
- 10 Which of the following involves Usability testing?
- 1 Deployment testing
 2. Requirements validation
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 - 4 All of the above
11. As a system developer, which of the following are elements to be considered in systems design?
- 1 Architecture, data and interfaces
 - 2 Data interfaces and project scope
 - 3 Systems models.
 - 4 All of the above
- 12 Which of the following are concerns of software engineering?
- 1 Architecture, data and interfaces
 - 2 Data interfaces and project scope
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 - 4 All of the above
- 13 An architectural style encompasses which of the following elements?
- 1 Constraints
 - 2 Set of components
 - 3 Semantic models
 - 4 All of the above

TURN OVER

- 14 To determine the architectural style or combination of styles that best fits any proposed system, requirements engineering is used to uncover _____
- 1 Algorithmic complexity
 - 2 Characteristics and constraints
 - 3 Control and data
 - 4 Design patterns
- 15 Which of the following are elements of systems requirements?
- 1 Architecture, data and interfaces
 - 2 Data, interfaces and project scope
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 - 4 All of the above
- 16 Which of the following is preferable of software modules?
- 1 Low cohesion and high coupling
 - 2 High cohesion and high coupling
 - 3 High cohesion and low coupling
 - 4 It depends on the situation
- 17 Cyber security dealing with secrecy or confidentiality threats is referred to as _____
- 1 Unauthorized modification of data
 - 2 Denial of access to data and services
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 - 4 All of the above
- 18 Integrity threats refer to one of the following
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19. Denial of access or availability threats refers to _____
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- 20 Which of the following can be classified as a Model–View–Controller (MVC) architectural pattern?
- 1 It has three components
 - 2 Has clients and servers
 - 3 It is a sequential model of processing
 - 4 None of the above

TURN OVER

21 Prototyping involves development of _____

- 1 Initial demonstration of concepts
- 2 A final product
- 3 A stable product
- 4 Beta version of the product

22 Which of the following is an attribute of a dependable software engineering process?

- 1 Documentable
- 2 Standardized
- 3 Auditable
- 4 All of the above

23 Redundancy and diversity are fundamental strategies in the dependability of a system
Which of the following is an example of diversity?

- 1 A spare/extra capacity
- 2 Object oriented design
- 3 Avoiding a single point of failure
- 4 All of the above

24 Which of the following exploits on reusable components in its design?

- 1 A backup mechanism
- 2 Object oriented design
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25 Socio -Technical systems is made up of different components including_____

- 1 Equipment
- 2 Operating system
- 3 Society
- 4 All of the above

MAY/JUNE 2017

- 1 Which of the following situation is most appropriate for agile software development?
 - 1 When developments methods are flexible
 - 2 When the process of software development is well defined
 - 3 When requirements are well known in advance
 - 4 All of the above
- 2 Select one level of protection which might not be used in an information system security
 - 1 Platform-level protection
 - 2 Application-level protection
 - 3 Record-level protection
 - 4 Usage -level protection
- 3 One key question which your team members should not answer at daily Scrum meeting is _____
 - 1 What did you do since the last meeting?
 - 2 What obstacles are you encountering?
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 - 4 What do you plan to accomplish in the next team meeting?
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TURN OVER

23 Which of the following influence the reliability of a system?

- 1 Hardware reliability
- 2 Software reliability
- 3 Operator reliability
- 4 All of the above

24 Which of the following factor is not used to assess applications evolution?

- 1 Documentation
- 2 Data
- 3 Performance
- 4 Health

25 Why is it sometimes necessary to bypass the normal change management system and make urgent change to a system?

- 1 To satisfy management
- 2 To satisfy customer
- 3 To repair a serious system fault
- 4 None of the above

MAY/JUNE 2016

1 The purpose of performance testing is to-----,

- 1 To test the response rate of the system
- 2 To test the number of transactions that the system can handle simultaneously
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2 Which of the following is appropriate for the incremental model of software development?

- 1 When developments methods are flexible
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3 The agile model of software development is most appropriate for the following situation

- 1 When developments methods are flexible
- 2 When the process of software development is well defined
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- 4 All of the above



4 Which of the following needs to be assessed during unit testing?

- 1 Algorithmic performance
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7 As a system developer, which of the following are elements to be considered in systems design?

- 1 Architecture, data and interfaces
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- 3 Systems models
- 4 All of the above



8 Which one of the following are major concerns to software engineering

- 1 Architecture, data and interfaces
- 2 Data interfaces and project scope
- 3 Systems models
- 4 All of the above



9 An architectural style encompasses which of the following elements?

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12 Which of the following is preferable with regard to software modules?

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22 Which of the following influences the general reliability of a system?

- 1 Hardware reliability
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23 Which of the following is not part of software engineering ethics?

- 1 Confidentiality
- 2 Competence
- 3 Intellectual property rights
- 4 User Interface



24 Why is it sometimes necessary to bypass the normal change management system and make urgent change to a system?

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25 Which of the following factor is not used to assess applications evolution?

- 1 Documentation
- 2 Data
- 3 Performance
- 4 Language



OCT/NOV 2016

1 Refactoring which is making program changes to preserve a system functionality, is a form of _____

- 1 Preventative maintenance
- 2 Maintenance to repair software faults
- 3 Maintenance to adapt software to a different operating environment
- 4 None of the above



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25 Which of the following factors is not used to assess a systems applications evolution?

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- 4 Skills



MAY/JUNE 2015

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THINK OVER

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OCT/NOV 2015

- 1 What are the four framework activities found in the Extreme Programming (XP) process model?
 - 1 Analysis, design, coding, testing
 - 2 Planning, analysis, design, coding
 - 3 Planning, analysis, coding, testing
 - 4 Planning, design, coding, testing
- 2 Which of the following is not a key question to be answered by team members at each daily Scrum meeting?
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